

IX.6.1-PESP EXTENDED STREAMFLOW PREDICTION INTERNAL ARRAY PESP

Function

Array PESP contains the information that defines the analysis that is done for each Segment.

Listing

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DIMENSION PESP(MPESP)
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Contents

Array PESP contains the following information for each output variable that is defined for the Segment.

<u>Position</u>	<u>Description</u>
1	Number defining output variable type: 1 = maximum mean daily value and days to maximum mean daily value 2 = minimum mean daily value and days to minimum mean daily value 3 = mean daily value 4 = cumulative value 5 = maximum instantaneous value and days to maximum instantaneous value 6 = minimum instantaneous value and days to minimum instantaneous value 7 = (for KODE=1) number of days until time series gets above VALUE (for KODE=2) number of days until time series gets below VALUE 8 = (for KODE=1) number of days time series is greater than VALUE (for KODE=2) number of days time series is less than VALUE
2	Location of next output variable in PESP array
3-4	8-character output variable identifier
5	KODE (indicates output variable option)
6	VALUE - cutoff output variable level
7	Location in the accumulator array for the output variable (filled at execution)
8-12	20-character heading information for the output variable

<u>Position</u>	<u>Description</u>
13-14	8-character identifier for time series 1
15	4-character data type code for time series 1
16	Time interval of time series 1 (hours)
17	Indicator to define whether time series 1 contains observed or simulated data: 'OBS' = observed 'SIM' = simulated
18	Location of time series in D array <u>1</u> /
19-21	Carryover values for time series 1 (filled at execution)
22-23	8-character identifier for time series 2
24	4-character data type code for time series 2
25	Time interval of time series 2 (hours)
26	Indicator to define whether time series 2 contains observed or simulated data: 'OBS ' = observed 'SIM ' = simulated
27	Location of time series in D array <u>1</u> /
28-30	Carryover values for time series 2 (filled at execution)
31	Standard metric units for accumulator values
32-35	Not used

The following positions are repeated for each display:

36	Display type: 1 = summary table 2 = frequency analysis
37	Number of values (NDSP) - includes the display type number and the NDSP value
38 to 35+NDSP	Display parameters

The last entry in the TSESP array is indicated by either:

1. the number code for the type of output variable is zero or
2. the pointer indicating where the next output variable begins exceeds MPESP (the dimension of the PESP array)

Note:

1/ The whole number portion of the value is a pointer to the location of the time series in the D array. The hundredths positions is used to indicate which value of a multi-valued time series is of interest according to the following table:

<u>Data Type</u>	<u>Name</u>	<u>Number</u>
SMZC	UZTDEF	1
	UZFWC	2
	LZTDEF	3
	LZFSC	4
	LZFPC	5
ROCL	TCHANINF	1
	IMP-RO	2
	DIR-RO	3
	SUR-RO	4
	INTERFLO	5
	SUPBASE	6
	PRIMBASE	7

Display Parameters

This portion of the PESP array contains the display information for each type of display requested for each output variable.

Display Type: Summary

Description: No display parameters are stored for a summary display type.

Display Type: Frequency

Description: The display parameters for the frequency analysis.

<u>Position</u>	<u>Description</u>
1	Type of distribution desired: 1 = empirical only 2 = log-normal 3 = normal
2	Number of frequency values (INUM): 0 = default probability values used
3 to 2+INUM	Frequency values
3+INUM	Indicator for plot (IPLT): 0 = no plot 1 = plot
4+INUM (if IPLT=1)	Indicator for including sample points on plot - only used if a plot was requested: 0 = do not include 1 = include
If a plot was requested 5 values are stored to indicate whether or not to include different time series types on the plot: 0 = do not include 1 = include	
5+INUM (if IPLT=1)	Historical simulated time series flag
6+INUM (if IPLT=1)	Adjusted simulated time series flag
7+INUM (if IPLT=1)	Conditional simulated time series flag
8+INUM (if IPLT=1)	Observed time series flag
9+INUM (if IPLT=1)	Base period observed time series flag
INUM+4 (if IPLT=0)	Indicator for including output variable

<u>Position</u>	<u>Description</u>
or INUM+10 (if IPLT=1)	in 'Run Summary': 0 = do not include 1 = include